This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

Claims 1-20 (cancelled).

Claim 21 (previously presented): A method for treating migraine headaches and symptoms of migraine headaches in a human subject in need thereof, comprising administering an effective amount of a composition consisting essentially of a $Na^+K^+2Cl^-$ cotransporter antagonist that is capable of inhibiting $Na^+ K^+2Cl^-$ cotransport in glial cells to the subject.

Claim 22-24 (cancelled).

Claim 25 (currently amended): The method of claim 21, additionally comprising the step of administering an effective amount of a blood brain barrier permeability enhancer.

Claim 26 (currently amended): The method of claim 21, additionally comprising the step of administering a hyperosmotic agent.

Claim 27 (currently amended): The method of claim 21, wherein the ~~treatment composition~~ $Na^+K^+2Cl^-$ cotransporter antagonist is ~~selected from the group consisting of~~ furosemide, ~~furosemide-related compositions, and bumetanide~~.

Claim 28 (currently amended): The method of claim 21, additionally comprising the step of administering one or more agents selected from the group consisting of anticonvulsants and non-steroidal anti-inflammatory drugs.

Claim 29 (previously presented): The method of claim 28, wherein one of said anticonvulsant agents is divalproex sodium.

Claims 30-32 (cancelled).

Claim 33 (previously presented): The method of claim 25, wherein the blood brain barrier permeability enhancer is selected from the group consisting of leukotrienes, bradykinin agonists,

histamine, tight junction disruptors, hyperosmotic solutions, cytoskeletal contracting agents and short chain alkylglycerols.

Claims 34 and 35 (cancelled).

Claim 36 (previously presented): The method of claim 21, wherein the $Na^+K^+2Cl^-$ cotransporter antagonist blocks spontaneous synchronized depolarizing oscillations of neuronal population activity in the central nervous system.

Claim 37 (previously presented): The method of claim 21, wherein the $Na^+K^+2Cl^-$ cotransporter antagonist produces modulation of the chloride concentration in extracellular space in the central nervous system.

Claims 38-40 (cancelled).

Claim 41 (previously presented): The method of claim 21, wherein the $Na^+K^+2Cl^-$ cotransporter antagonist is administered intranasally.

Claim 42 (cancelled).

Claim 43 (previously presented): The method of claim 21, wherein the $Na^+K^+2Cl^-$ cotransporter antagonist is administered directly into the cerebrospinal fluid.

Claim 44 (cancelled).

Claim 45 (withdrawn): A method for treating migraine headaches in a mammalian subject in need thereof, comprising administering a cation chloride cotransporter antagonist to the subject, wherein the cation chloride cotransporter antagonist is selected from the group consisting of thiazide and thiazide-like compositions.

Claim 46 (cancelled).

Claim 47 (previously presented): The method of claim 21, wherein the treatment composition is administered transdermally for delivery to the CNS.

Claim 48 (currently amended): The method of claim 21, wherein the ~~treatment~~ composition is administered in a sustained release formulation.

Claim 49 (currently amended): The method of claim 21, wherein the ~~treatment~~ composition is administered in a dosage incorporated in a non-reactive carrier.

Claim 50 (currently amended): The method of claim 21, wherein the ~~treatment~~ composition is delivered in a liposome formulation.

Claim 51 (currently amended): The method of claim 21, wherein the ~~treatment~~ composition is administered by implantation of a formulation or therapeutic device at one or more target sites for delivery of the ~~treatment~~ composition to the CNS.

Claim 52 (currently amended): The method of claim 51, wherein the formulation or therapeutic device is actuatable externally upon onset of symptoms to deliver predetermined amounts of the ~~treatment~~ composition.

Claim 53 (currently amended): The method of claim 21, wherein the ~~treatment~~ composition is administered in combination with a hyperosmotic agent.

Claims 54-56 (cancelled).

Claim 57 (previously presented): A method for treating migraine headaches and symptoms of migraine headaches in a human subject in need thereof, the method consisting essentially of administering to the subject an effective amount of a $Na^+K^+2Cl^-$ cotransporter antagonist that is capable of inhibiting $Na^+K^+2Cl^-$ cotransport in glial cells.

Claim 58 (new): The method of claim 57, wherein the $Na^+K^+2Cl^-$ cotransporter antagonist is furosemide.

Claim 59 (new): The method of claim 57, wherein the $Na^+K^+2Cl^-$ cotransporter antagonist is bumetanide.

Claim 60 (new): The method of claim 21, wherein the $Na^+K^+2Cl^-$ cotransporter antagonist is bumetanide.